## Amendments to the Claims (App# 09/682,315)

1 (Previously presented): A method for creating an application program in a codeless manner without using a compiler, the method implemented on a computer system having persistent storage, a display screen and one or more input devices, the input devices controllable by a user to create visual representations on the display screen, the method comprising following steps:

A. defining and supporting a set of pre-developed object classes, the said pre-developed object classes are all derived from one generic class which supports a property-method-event model; defining an action class and an action list class; the action class has, as its members, action performer, action method, and action data; the action list class contains a sorted list of action class instances; the action performer is one of the pre-developed object class; the action method is one of the methods supported by the action performer; the action data are the parameters needed by the action method:

B. generating and graphically displaying, in response to input from the user, instances of the object classes from the said pre-developed object classes;

C. setting, in response to input from the user, each property of each instance of the object classes created in step B[[;]].

2 (Previously presented): The method of claim 1 further comprising the step of:

D. creating, in response to input from the user, instances of the action list class which contains a sorted list of instances of the action class; [[W]]wherein step D comprises following steps

D1. Creating, in response to input from the user, each action class instance of each action list class instance; and [[W]]wherein step D1 comprises:

D1a. Selecting an instance of object class from the instances of object classes created in step B; the said selected instance of object class is used as the action performer member for the action class instance;

D1b. selecting a method from the methods supported by the instance of object class selected in step D1a; the selected method is used as the action method for the action class instance;

D1c. according to the method selected in step D1b, it is known the number and types of the parameters needed for the said method, if one or more parameters are needed for the said method, then one or more dialog-boxes are provided for the user to specify the appropriate parameters for the method[[:]].

3 (Previously presented): The method of claim 1 further comprising the step of

E. linking, in response to input from the user, action list instances created in step D to events of the instances of the object classes to form an event-action-list mapping so that the action list becomes an event handler for the event and thus codeless programming is achieved; [[W]]wherein step E

comprises:

- E1. Selecting, in response to input from the user, an instance of object class from the existing instances of object classes;
- E2. Selecting, in response to input from the user, an event from the events supported by the object class instance selected in step E1;
- E3. Selecting, in response to input from the user, an action list class instance from the action list class instances created in step 2;
- E4. Building the mapping relationship between the action-list selected in step E3 and the event selected in step E2[[;]].
- 4 (Canceled)
- 5 (Canceled)
- 6 (Previously presented): The method of claim 1 further comprising the step of:
- F. Selecting, in response to input from the user, a set of object class instances to be specified as the "initially active object class instances" usually the object class instances presented on the first application screen presentation is such a set of the "initially active object class instances";
- G. saving to the computer persistent storage the object class instances created in steps A, B and C, the action list class instances created in step D, the mapping relationship built in step E between the events of object class instances and the action lists, indication of which object instances are the "initially active object class instances" as specified in step F:
  - H. an execution environment; [[W]]wherein step H comprises:
  - H1. Reading back from the computer persistent storage the object class instances created in steps A, B and C, the action lists created in step D, the mapping relationship built in step E between the events of the object class instances and the action list, indication of which object instances are the "initially active object class instances" as specified in step F;
    - H2. Creating and displaying the said "initially active object class instances";
  - H3. Responding to each event fired by each object class instance; [[W]]wherein step H3 comprises:
    - H3a. Checking if there is a mapping relationship between an action list class instance and the said event;
    - H3b. If the said mapping relationship exists, sequentially performing each action in the said action list mapped to the said event;
      - H3c. Each action in the said action list is performed by the following steps:
      - H3c1. Locating the object class instance which is assigned as the action performer for the action;
        - H3c2. Signaling to the said action performer which action method is specified for

the action;

H3c3. If there are method data specified for the said method of the said located object class instance, the method data are passed to the said object class instance as well;

H3C4. The said located object class instance carries out the said action method.

7 (Previously presented): The method of claim 1 further comprising the step of:

I. A context-data buffer which saves event parameter data such as mouse position in mouse movement events; every time an event is fired, before an action list is executed as an event handler, the said context-data buffer is filled with the said event parameter data;

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8 (Canceled)
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